



# BBB Tank Services, Inc.

## AST Services and New API Tanks

June 28, 2013

LAZARUS Energy (BLUE DOLPHIN)  
801 Travis Street  
Suite 2100  
Houston, Texas 77002  
Ingleside, Texas  
Attention Mr. Steve Wilson

Reference-	Proposal-	Tank #30 Tank Bottom and Annular Ring Replacement External Floating Roof Replacement
	Location	Ingleside, Texas
	Description	(1) 173'-0" Diameter x 48'-0" High Open Top Tank w/External Floating Roof
	BBB Proposal-	N13-510 Revision 2
Revision 2	Updated the proposal.	

As per the instructions to bidder and API-653 latest standards we propose to furnish labor, materials and equipment to complete the following scope of work.

### TANK BOTTOM and ANNULAR RING REPLACEMENT

1. Mobilize.
2. Conduct a site specific safety meeting to discuss safety issues involved with this project and the site rules, regulations for contractors and safety rules.
3. A jobsite JHA will be prepared by the BBB Foreman and his crew and preferably with the owner's representative, pointing out the possible hazards they will face in completing this task and remedies or safety steps to eliminate or limit those hazards
4. Receive and unload materials and equipment.
5. Hot cut a door sheet for tank access and bottom installation.  
**NOTE:** A door sheet has been cut. Our proposal includes a new door sheet since the door sheet that was cut was cold cut and cannot be reinstalled to meet API-653 standards.
6. Hot cut and remove the existing tank bottom.  
**NOTE:** If the bottom is "Hot" and has to be cold cut the additional cost is \$(b) (4) .
7. Place scrap metal into owner furnished bins at the tank site for disposal, by others.
8. Remove 6" of the sand under the existing bottom and place it in to owner furnished bins at the tank site for disposal by others,
9. Furnish and install 6" of clean, washed river sand.  
**NOTE:** If the existing sand is contaminated the cost of excavation and disposal will be additional.
10. Furnish and install a new 1/4" thick, Grade A36 Steel, lap welded, top side only, tank bottom.
11. Furnish and install a new 3/8" thick, Grade A36 annular plate.
12. Furnish and install a new tank bottom sump- 48" diameter x 24" deep including new 4" piping and supports..
13. Furnish and install a new door sheet.
14. Broom clean the tank.
15. Furnish and install new striker plates under the floating roof legs, gauge pole, automatic bleeder vents. (74) appx.
16. Tests include:
  - a. Liquid penetrant testing of the new bottom corner weld.
  - b. Vacuum box testing of the new bottom weld seams.
  - c. X-ray of the door sheet as per API-653.
  - d. Visually check all of our work.
  - e. Hydrotest the tank. The Hydrotest is to be by others-BBB personnel are to witness the hydrotest-only.  
**NOTE:** Add \$(b) (4) if the BBB crew is to button up the tank, including nuts, bolts and gaskets and complete the Hydrotest. The hydrotest water is to be furnished and disposed of by others and available within 200lf of the tank. Pumping water and pumps would be additional.



9633933



# BBB Tank Services, Inc.

## AST Services and New API Tanks

Page 2 of BBB Proposal N13-510

21. Clean up work site.
22. Demobilize.

---

### BASE BID Tank Bottom and Annular Plate Replacement (50 Hour Work Week)

Labor and Equipment	\$ (b) (4)
Materials, fabrication, freight, Consumables	
Equipment, Fuel	
TOTAL	\$

---

Duration 12-13 Weeks ARO.

Add \$ (b) (4) for a 60 hour work week which would shorten the duration by two weeks.

---

---

### TANK EXTERNAL FLOATING ROOF REPLACEMENT

1. Mobilize.
2. Conduct a site specific safety meeting to discuss safety issues involved with this project and the site rules, regulations for contractors and safety rules.
3. A jobsite JHA will be prepared by the BBB Foreman and his crew and preferably with the owner's representative, pointing out the possible hazards they will face in completing this task and remedies or safety steps to eliminate or limit those hazards
4. Receive and unload materials and equipment.
5. Hot cut a door sheet for tank access and bottom installation.  
**NOTE:** Our proposal is based on using the existing door sheet for access and egress to and from the tank.
6. Furnish and install a new 3/16" thick, Grade A36 Steel, lap welded, top side only, external floating roof. Including-
  - a. Ring pontoons with inner and outer rim plates, top plates, bulkheads and 24" pontoon manways.
  - b. (4) Automatic bleeder vents.
  - c. (2) 3" Emergency drains.
  - d. (1) 40" Center sump with 6" MESA Rubber drain hose and 6" check valve.
  - e. (1) 30" Satellite sump near the rolling ladder for proper drainage
  - f. (1) Rolling Ladder, Rolling ladder runway and Gauging Platform. (Galvanized).
  - g. (1) 8" Slotted Gauge Pole with 8" Gauge Hatch and Floating roof negotiator with seals.
  - h. (1) BBB Standard Primary mechanical shoe seal with Grade 304 Stainless Steel Shoes, Holddowns and mounting hardware. The sealing fabric will be 10 mil TEFLON.
  - i. (1) BBB Standard Secondary weathershield including PVC/Nitrile rubber wiper tips, Grade 304 Stainless Steel Weathershields and Urethane Vapor Fabric.
7. Furnish and install a new roof mounted foam dam.
8. Broom clean the tank roof.
9. Tests include:
  - a. Liquid penetrant testing of the new weld seams.
  - b. Air raise the floating roof.
  - d. Visually check all of our work.
10. Clean up work site.
11. Demobilize.



# BBB Tank Services, Inc.

AST Services and New API Tanks

Page 3 of BBB Proposal N13-510

---

**BASE BID Tank External Floating Roof Installation**

**(50 Hour Work Week)**

Labor and Equipment  
Materials, fabrication, freight, Consumables  
**TOTAL**

\$ (b) (4)  
\$

---

<b>Duration</b>	<b>Drawings/ Drawing submittal</b>	<b>3-3 weeks</b>
	<b>Drawing Approval</b>	<b>1-1 weeks</b>
	<b>Material Acquisition/Fabrication/Freight</b>	<b>5-6 weeks</b>
	<b>Field Erection/Testing</b>	<b>11-13 Weeks ARO.</b>
	<b>TOTAL</b>	<b>20-23 Weeks ARO</b>

Add \$(b) (4) for a 60 hour work week which would shorten the duration by two weeks.

**Terms and Conditions**

1. Sales and/or Use Tax is not included in our proposal. Add 8.25% to our base bids and alternates if sales tax is to be accrued and paid by BBB Tank Services, Inc..
2. Our price includes a dedicated hole/Fire watch when the door sheet is installed and the tank becomes a confined space. Add \$(b) (4) per day if a dedicated fire, safety or hole watch is required. Price is each..
3. Supplied air or working in supplied air is not included in this proposal.
4. Surface preparation or painting is not included.
5. BBB will bill upon let of contract for materials/fabrication/Engineering and freight, then bill twice monthly until the end of the project.
6. Payment is net 10 days upon invoice date.
7. Prices are good for 30 days

**ALTERNATE 1-** Remove and replace the spiral stairway and stairway platforms. (Galvanized). Add \$(b) (4)

Thank you for the opportunity to quote this project. Hopefully we will be the successful bidder and we will have the opportunity to work with you on this project.

If you have questions or concerns regarding this proposal please call.

Sincerely,  
BBB Tank Services, Inc.

---

Robert E. Swain  
Project Manager